



Figure 6. Sites of Histone Tail Modifications

The amino-terminal tails of histones account for a quarter of the nucleosome mass. They host the vast majority of known covalent modification sites as illustrated. Modifications do also occur in the globular domain (*boxed*), some of which are indicated. In general, active marks include acetylation (*turquoise Ac flag*), arginine methylation (*yellow Me hexagon*), and some lysine methylation such as H3K4 and H3K36 (*green Me hexagon*). H3K79 in the globular domain has anti-silencing function. Repressive marks include H3K9, H3K27, and H4K20 (*red Me hexagon*), Green = active mark, red = repressive mark.